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Connected Mobility Security Solutions Market Forecasts to 2034 – Global Analysis By Product Type (Vehicle-to-Everything (V2X) Communication Platforms, Telematics Security Solutions, Secure Navigation & Mapping Systems, Fleet Management Security Platforms, Traffic Management Security Systems and Autonomous Driving Security Technologies), Connectivity Type, Technology, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Connected Mobility Security Solutions Market is accounted for $4.83 billion in 2026 and is expected to reach $32.74 billion by 2034 growing at a CAGR of 27.0% during the forecast period. Connected Mobility Security Solutions are designed to defend modern transportation networks against cyber risks as vehicles become digitally interconnected. With the adoption of IoT devices, telematics systems, vehicle-to-everything communication, cloud integration, and remote software updates, robust cybersecurity measures are essential to maintain safety and operational continuity. These systems employ encryption protocols, intrusion detection tools, secure communication gateways, identity verification mechanisms, endpoint safeguards, and continuous threat surveillance. Leveraging artificial intelligence and predictive analytics, they identify vulnerabilities and block malicious activities.

According to the U.S. National Highway Traffic Safety Administration (NHTSA), connected vehicle technologies could prevent up to 80% of crashes involving non-impaired drivers if fully implemented, underscoring the critical role of secure Vehicle-to-Everything (V2X) communication.

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Market Dynamics:

Driver:

Rising cybersecurity threats in connected vehicles

Increasing cyber risks targeting digitally enabled vehicles are a major catalyst for the connected mobility security solutions market. With vehicles now dependent on cloud platforms, telematics systems, V2X networks, and remote software updates, potential attack surfaces have expanded considerably. Cyber intrusions can endanger passengers, expose confidential information, and interfere with operational performance. Growing awareness of automotive hacking incidents has encouraged manufacturers and mobility providers to strengthen their cybersecurity posture. This environment compels stakeholders to deploy advanced encryption technologies, threat detection mechanisms, and real-time surveillance systems to safeguard connected transportation infrastructures effectively.

Restraint:

High implementation and maintenance costs

Significant financial requirements associated with deploying and sustaining connected mobility security systems hinder market expansion. Integrating advanced cybersecurity measures involves investment in specialized components, secure communication frameworks, and monitoring technologies, increasing development expenditures. Beyond installation, continuous system upgrades, vulnerability testing, and expert workforce support add to recurring expenses. Smaller automotive firms and fleet managers may struggle to allocate sufficient resources for comprehensive cybersecurity programs. Cost sensitivity in emerging markets further restricts adoption rates.

Opportunity:

Growth of autonomous and software-defined vehicles

The emergence of self-driving and software-centric vehicles generates promising prospects for connected mobility cybersecurity providers. Autonomous systems depend extensively on artificial intelligence, cloud integration, and constant data transmission to ensure operational reliability. As vehicles become more automated, potential

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vulnerabilities affecting sensors, navigation controls, and digital networks intensify. This environment encourages the deployment of sophisticated threat detection tools, encrypted communication channels, and proactive surveillance technologies. Automotive manufacturers are embedding security mechanisms directly into vehicle architectures to safeguard essential operations.

Threat:

Rapid evolution of sophisticated cyberattacks

An increasing wave of highly advanced cyber threats poses a serious risk to the connected mobility security solutions market. Cybercriminals are leveraging innovative tactics, including artificial intelligence-powered malware and undiscovered software vulnerabilities, to infiltrate digital vehicle systems. Because connected mobility platforms manage critical operations and sensitive information, they are attractive targets for malicious actors. Defensive mechanisms often struggle to keep pace with the speed of evolving attack strategies. If security systems fail to adapt quickly, organizations may experience severe data breaches and operational disruptions.

Covid-19 Impact:

The outbreak of COVID-19 produced both short-term challenges and long-term growth prospects for the connected mobility security solutions market. During the early stages, factory shutdowns, logistical disruptions, and declining automobile demand led companies to defer cybersecurity spending. Budget constraints slowed certain innovation initiatives. Nevertheless, the pandemic accelerated the shift toward digital platforms, remote monitoring, and cloud-integrated vehicle services. Increased dependence on over-the-air updates and contactless mobility solutions exposed new cyber risks. As organizations recognized these vulnerabilities, they intensified investments in advanced cybersecurity systems.

The telematics security solutions segment is expected to be the largest during the forecast period

The telematics security solutions segment is expected to account for the largest market share during the forecast period, primarily driven by the extensive integration of telematics technologies in modern transportation systems. These platforms support vehicle tracking, performance analytics, predictive maintenance, and cloud-based data sharing, forming the backbone of connected vehicle infrastructure. Because telematics

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systems handle continuous streams of critical and location-based information, robust cybersecurity measures are essential to prevent breaches and unauthorized access. The rapid expansion of fleet management services, connected insurance programs, and smart logistics operations amplifies the need for secure telematics frameworks, reinforcing this segment's leading position in the overall market.

The artificial intelligence (AI) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the artificial intelligence (AI) segment is predicted to witness the highest growth rate, primarily because of its ability to enhance proactive cyber defense strategies. AI-driven platforms process extensive datasets from vehicles and digital networks to uncover unusual behavior patterns and emerging threats instantly. Unlike conventional security methods, intelligent algorithms continuously learn and adapt to new attack techniques. This capability supports automated responses, improved accuracy in threat identification, and real-time risk mitigation. As connected transportation systems become more complex and data-intensive, reliance on AI-based cybersecurity solutions increases significantly, fueling its strong growth trajectory in the market.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to its mature automotive sector and well-established digital infrastructure. The presence of major vehicle manufacturers, cybersecurity technology developers, and cloud platform providers strengthens the region's leadership in secure mobility innovation. Widespread deployment of telematics systems, advanced driver assistance technologies, and connected vehicle networks drives consistent demand for sophisticated protection mechanisms. Furthermore, strict regulatory frameworks and heightened concerns regarding data protection promote ongoing cybersecurity investments. Together, these elements secure North America's leading position in the global connected mobility security solutions landscape.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by accelerating technological advancement and expanding automotive ecosystems. The region is witnessing strong investments in smart mobility projects, digital infrastructure, and next-generation communication networks that support

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connected transportation systems. Increasing production of electric and connected vehicles amplifies the need for advanced cybersecurity frameworks. Furthermore, regulatory encouragement for innovation and digital transformation supports widespread technology adoption. With rising awareness of cyber risks and expanding mobility networks, Asia-Pacific demonstrates significant growth potential within the global connected mobility security landscape.

Key players in the market

Some of the key players in Connected Mobility Security Solutions Market include AUMOVIO, BlackBerry Limited, Vector Informatik GmbH, Harman International, KPIT Technologies, ARM, NXP Semiconductors, Secunet Security Networks, Intertek, Keysight Technologies, Karamba Security, Siemens, GuardKnox, Continental AG, Denso Corporation, Aptiv Plc, Argus Cyber Security and Upstream Security

Key Developments:

In December 2025, Harman International has agreed to acquire the ADAS business of ZF Group for €1.5 billion. The move strengthens HARMAN’s position in software-defined vehicles by bringing safety, assisted driving and in-cabin experiences onto a single, centralised vehicle computing platform.

In November 2025, Siemens Energy has signed a contract to design and deliver the power conversion system for Oklo's Aurora powerhouse reactors. The contract will see Siemens Energy conduct detailed engineering and layout activities for a condensing SST-600 steam turbine, an SGen-100A industrial generator, and associated auxiliaries to support Oklo’s first advanced reactor, the Aurora powerhouse at Idaho National Laboratory.

In February 2025, NXP Semiconductors has acquired AI chip startup Kinara in a $307 million all-cash agreement. NXP said the acquisition would enable it to “enhance and strengthen” its ability to provide scalable AI platforms by combining Kinara’s NPUs and AI software with NXP’s solutions portfolio. Kinara develops programmable neural processing units (NPUs) for Edge AI applications, including multi-modal generative AI models.

Product Types Covered:

Vehicle-to-Everything (V2X) Communication Platforms

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Telematics Security Solutions

Secure Navigation & Mapping Systems

Fleet Management Security Platforms

Traffic Management Security Systems

Autonomous Driving Security Technologies

Connectivity Types Covered:

Vehicle-to-Vehicle (V2V)

Vehicle-to-Infrastructure (V2I)

Vehicle-to-Cloud (V2C)

Technologies Covered:

Cloud Computing

Internet of Things (IoT)

Big Data Analytics

Artificial Intelligence (AI)

Applications Covered:

Emergency Services Security

Ride-Sharing Security

Public Transportation Security

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- Commercial Fleet Security
- Private Vehicle Security

End Users Covered:

- Public Transport Authorities
- Ride-Sharing Operators
- Commercial Fleet Owners
- Private Vehicle Owners

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain

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- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America

- Brazil

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- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants

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- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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